DICE interface for iPod

for selected Mazda vehicles

Installation Guide/User Manual

Made for iPod

SILVERLINE

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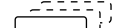
Icon legends

Turn jog dial

Turn jog dial repeatedly

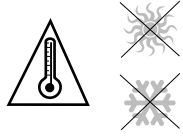
Press button


Press button repeatedly

Double-Click

Warning and safety!

Please read these instructions carefully before proceeding. Failure to follow instructions may result in improper operation or injury. Neither DICE Electronics, LLC. nor Apple Inc., its regional offices, distributors or resellers take any responsibility for any damage or injury as a result of using the integration kit.



- Do not open, disassemble or alter the interface in any way.
- Do not insert anything into the casing.
- Do not cut or try to alter cables in any way and always use the correct connections.
- Only operate unit when stationary or ask passengers to operate it for you.
- Do not allow the Apple iPod to distract you from driving.
- Exercise good judgement and keep your eyes on the road at all times.
- Do not expose unit to extreme temperatures, humidity or shock.
- Keep the unit and iPod away from fluids.
- Keep away from children! - Interface components may contain small parts, can be broken or disassembled and components may become loose from vibration and heat. Small components and packaging materials may be a chocking hazard when handled by children.

Congratulations on your purchase

Thank you for purchasing the DICE integration kit for iPod. Please review our user manual and installation guide before operating the unit. This interface was designed and manufactured to seamlessly integrate with your vehicle's factory entertainment system.

Product registration

In order to validate your warranty period and to receive telephone or online support, you MUST register your DICE product.

To register your DICE product, please complete the following steps:
1. Visit http://www.diceelectronics.com/register
2. Complete the product registration form.
3. Submit the form.
4. Save the registration/support/warranty sheet in a safe place for future reference.

If you are unable to complete the registration via internet, please call DICE Electronics at 1-888-342-3999.

Supported iPod models and firmware version requirements

FW:3.1.1

iPod
4th generation
20GB 40GB

FW:1.2.1

iPod
5th generation (video)
30GB 60GB 80GB

FW:1.3.1

iPod nano
1st generation
1GB 2GB 4GB

FW:1.2.1

iPod
4th generation color display
20GB 30GB 40GB 60GB

FW:1.4.1

iPod mini
4GB 6GB

FW:1.1.3

iPod nano
2nd generation (aluminum)
2GB 4GB 8GB

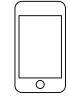
FW:1.0.3

iPod classic
80GB 160GB

FW:1.0.3

iPod nano
3th generation (video)
4GB 8GB

FW:1.1.1



iPod touch
8GB 16GB 32GB

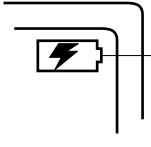
For the latest firmware versions and models not listed, please contact your authorized dealer or DICE Electronics, LLC.

iPod hierarchy

By default, the interface creates a Playlist having a name that is the same as the name of the iPod. This Playlist is the very first on the list of Playlists shown while browsing in Playlist mode. This Playlist contains all the songs on the iPod. Once a Playlist is active an Artist may be selected within that Playlist using the Artist Mode. Albums by the selected Artist and within the selected Playlist may be selected in Album Mode. "ALL ARTIST" and "ALL ALBUM" designate all available content in those categories.

Charging

The interface automatically charges the battery of the iPod when connected and the key is in the ACC/ON position.

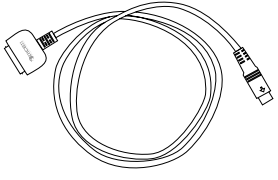


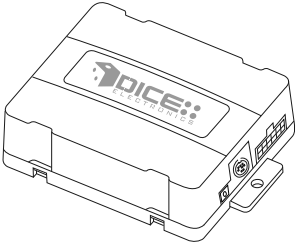
Charging icon will appear on the upper right corner of the iPod screen to indicate charging.

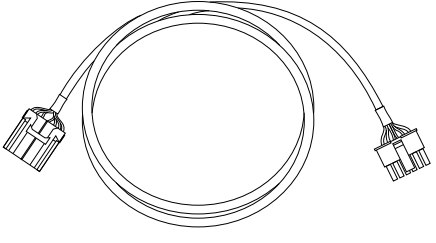
Mazda CDC - integration kit

Integration kit contents

1 Vehicle specific interface unit
1 Vehicle specific harness (R2)
1 iPod docking cable
1 User manual

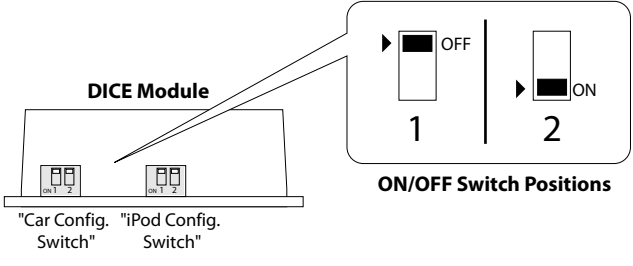






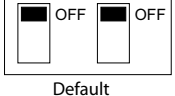
Dip switches

The configuration switches located on the DICE module are used to set the operation of the interface by the installer. Incorrect dip switch settings may cause the DICE interface not to work properly or not to operate at all. **Disconnect the vehicle harness from module and cycle ignition off for 50 seconds after changing the switches!**



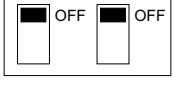
Dip switch settings

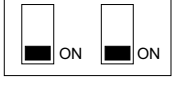
Car configuration switches	
Settings	
CD changer (CDC)	
Dip switch 1	Dip switch 2
OFF	OFF
Switches should remain in the default OFF position.	



Default

iPod configuration switches			
Settings			
"Locked" (works as described on pg.16)		**"iPod"** (iPod controls are functional)	
Dip switch 1	Dip switch 2	Dip switch 1	Dip switch 2
OFF	OFF	ON	ON
It is best selected when **controls from the radio** are preffered. Use this mode to browse within the contents of the iPod by category as described on pg. 16.		It is best selected when **Text display is NOT supported** by the radio. Track numbers and times are not synchronized between the iPod and radio. Because there is less data transfer between the iPod and radio, this mode has the fastest response time.	





Installation

Installation should only be performed by a qualified professional. Beware of sharp edges to avoid injury and exercise caution when removing trims as they may break. The module should be placed at an accessible location to allow AUX cable to be connected, such as in the glove box, the center console or under the front seat.

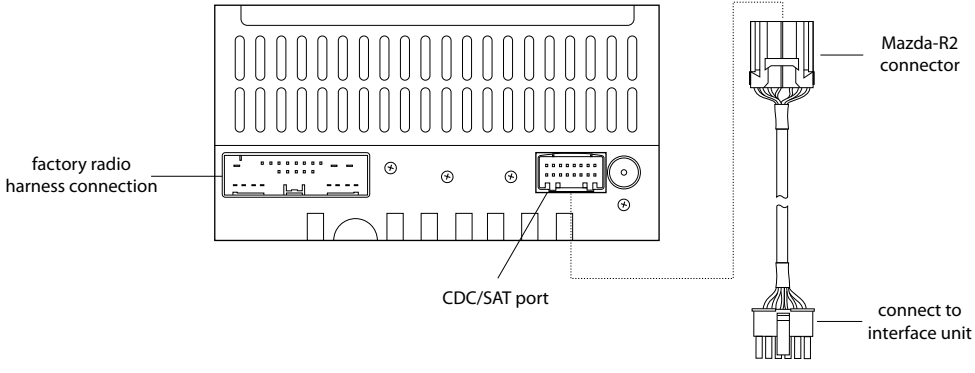
1 Pull vehicle into service bay and access radio/center console.

2 Disconnect both battery terminals. These cables must be disconnected during installation to ensure proper initialization of the module when it is connected.

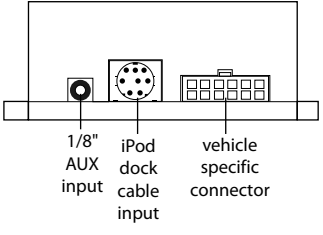
3 Before pulling out the radio, removing surrounding trims and screws. Most trims can be removed by carefully pulling on the piece or using trim removal tools. Trim is usually held in place by snap-in clips.

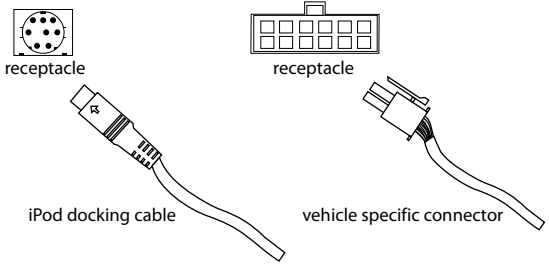
4 The radio is held in place by a few bolts. To remove these a 10mm socket is usually needed. Consult your dealership if additional information is needed on removing the radio.

5 - Connect vehicle specific harness -You can access the CD changer/SAT port located on the back of the radio. Unplug the factory connection if present and plug the Mazda-R2 connector into the receptacle. Plug the factory connection to the cable receptacle if it was removed from the radio. The connector should securely lock.



6 Connect the vehicle specific connector and the iPod docking cable to the DICE module. Apply cable ties to secure the cables.





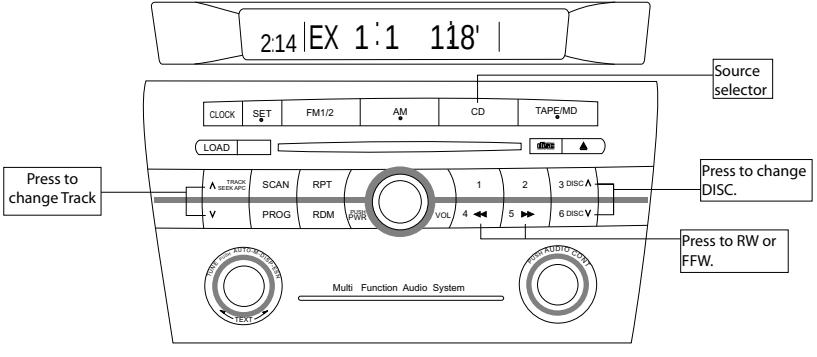
7 Verify that all connections have been properly made.

8 Reconnect the car's battery. Test the unit before seating the cables and reinstalling the panels/trim.

iPod audio source

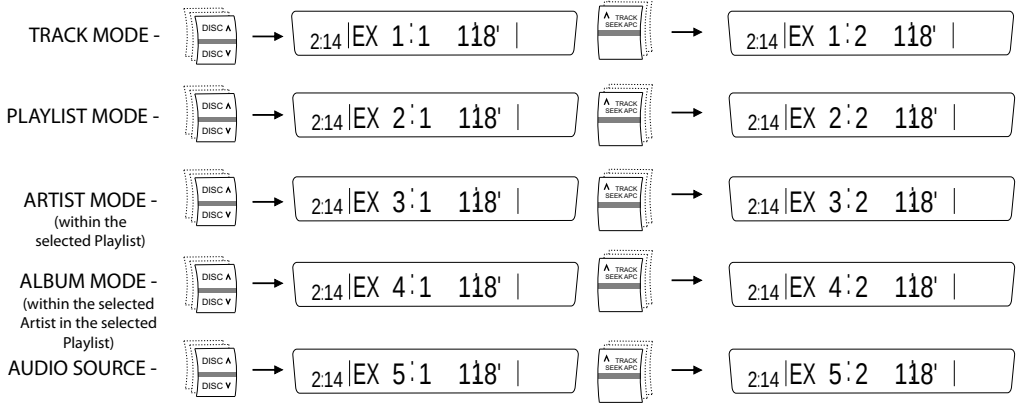
Controls in CDC emulation

Press the CD button to access the interface and its features. Pressing this button repeatedly will cycle through sources present (internal CD if present, followed by external) in your vehicle. When the iPod audio source is active (DISC 5, Track1), use the Seek track button to select next/previous Song.



Browsing function - in CDC emulation

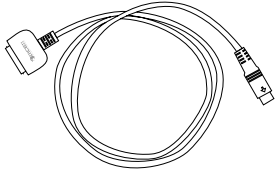
After connecting the iPod and selecting the iPod audio source, use the desired Mode by selecting DISC 1-4. Change Track by pressing the Seek/Track button. Text display is not supported, however recent iPod firmware upgrades show the Title/Artist information of the currently played song. Alternately, you may select iPod mode (p.11).

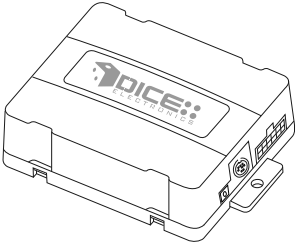

TRACK MODE -
PLAYLIST MODE -
ARTIST MODE - (within the selected Playlist)
ALBUM MODE - (within the selected Artist in the selected Playlist)
AUDIO SOURCE -
DISC ∧
DISC ∨
TRACK SEEK APC
2:14 EX 1 1 1'18"
2:14 EX 1 2 1'18"
2:14 EX 2 1 1'18"
2:14 EX 2 2 1'18"
2:14 EX 3 1 1'18"
2:14 EX 3 2 1'18"
2:14 EX 4 1 1'18"
2:14 EX 4 2 1'18"
2:14 EX 5 1 1'18"
2:14 EX 5 2 1'18"

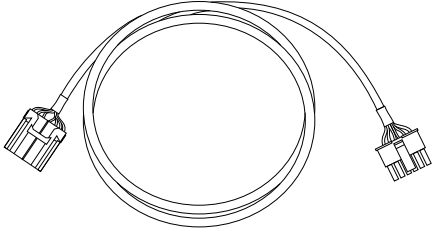
Mazda SAT - integration kit

Integration kit contents

1 Vehicle specific interface unit
1 Vehicle specific harness (R2)
1 iPod docking cable
1 User manual

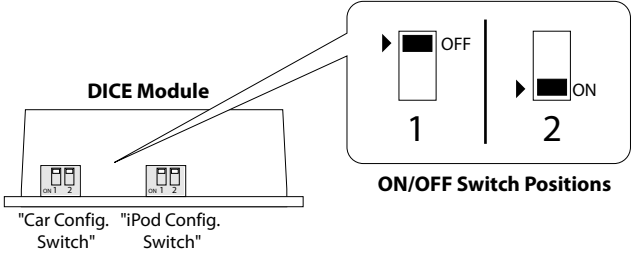






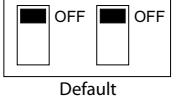
Dip switches

The configuration switches located on the DICE module are used to set the operation of the interface by the installer. Incorrect dip switch settings may cause the DICE interface not to work properly or not to operate at all. **Disconnect the vehicle harness from module and cycle ignition off for 50 seconds after changing the switches!**

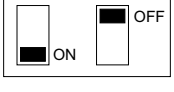


Dip switch settings

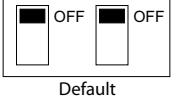
Car configuration switches			
Settings			
Single text fields (recommended for Non-Nav radios)		**Dual text fields** (recommended for Nav radios)	
Dip switch 1	Dip switch 2	Dip switch 1	Dip switch 2
OFF	OFF	ON	OFF
This is the recommended setting for Non-Nav radios. In this setting the Name and Title text fields displays identical song information. (Song name*Album*Artist) Only Short Scrolling can be selected in Preset 6.		This setting is recommended for **Navigation radios or for Non-Nav radios when manual scroll feature is preferred.** In this setting, the Title text field will display "Album * Artist" and the Name text field will display "Song name". Both Short scrolling and Long Static can be selected in Preset 6.	



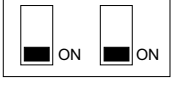
Default



iPod configuration switches			
Settings			
"Locked" (recommended in SAT emulation)		**"iPod"** (recommended in CDC emulation)	
Dip switch 1	Dip switch 2	Dip switch 1	Dip switch 2
OFF	OFF	ON	ON
It is best selected when **controls from the radio** are preffered. Use this mode to browse within the contents of the iPod by category as described on pp. 24-28.		It is best selected when **Text display is NOT supported** by the radio. Track numbers and times are not synchronized between the iPod and radio. Because there is less data transfer between the iPod and radio, this mode has the fastest response time. **Content is selected on the iPod.**	



Default



Installation

Installation should only be performed by a qualified professional. Beware of sharp edges to avoid injury and exercise caution when removing trims as they may break. The module should be placed at an accessible location to allow AUX cable to be connected, such as in the glove box, the center console or under the front seat.

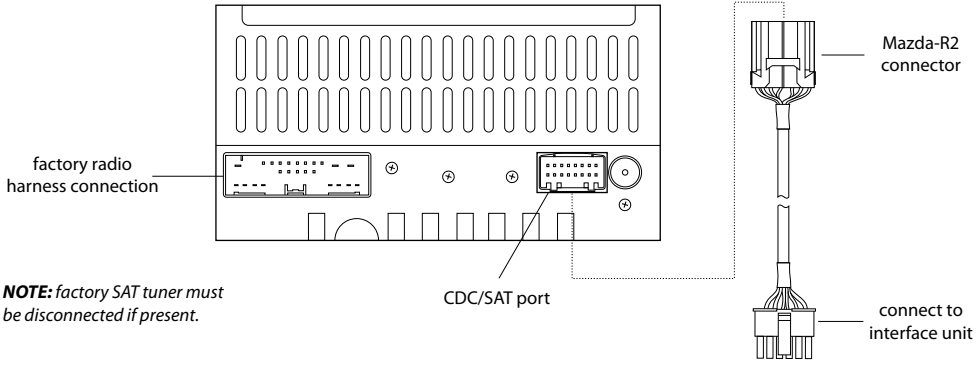
1 Pull vehicle into service bay and access radio/center console.

2 Disconnect both battery terminals. These cables must be disconnected during installation to ensure proper initialization of the module when it is connected.

3 Before pulling out the radio, removing surrounding trims and screws. Most trims can be removed by carefully pulling on the piece or using trim removal tools. Trim is usually held in place by snap-in clips.

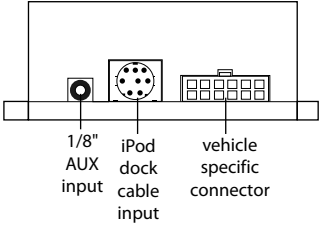
4 The radio is held in place by a few bolts. To remove these a 10mm socket is usually needed. Consult your dealership if additional information is needed on removing the radio.

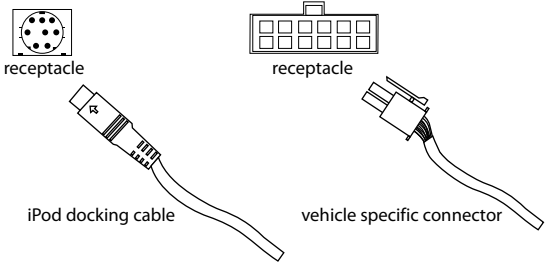
5 - Connect vehicle specific harness -You can access the CD changer/SAT port located on the back of the radio. Unplug the factory connection if present and plug the Mazda-R2 connector into the receptacle. Plug the factory connection to the cable receptacle if it was removed from the radio. The connector should securely lock.



***NOTE:** factory SAT tuner must be disconnected if present.*

6 Connect the vehicle specific connector and the iPod docking cable to the DICE module. Apply cable ties to secure the cables.



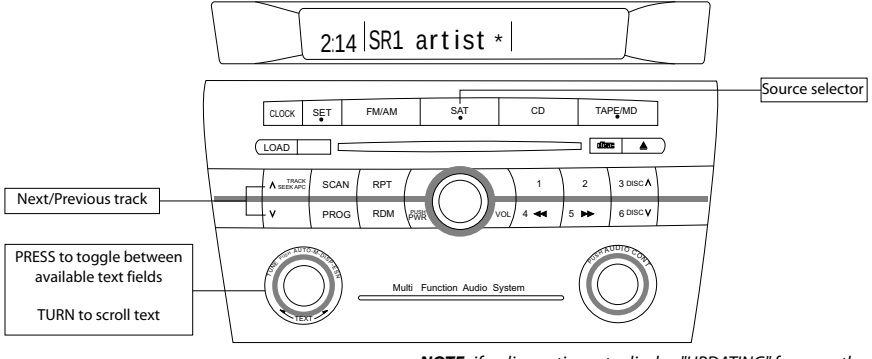


7 Verify that all connections have been properly made.

8 Reconnect the car's battery. Test the unit before seating the cables and reinstalling the panels/trim.

Controls in SAT emulation

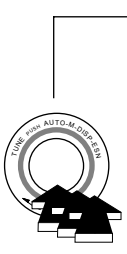
Press the SAT button to access the interface and its features. When the iPod integration is accessed for the first time, the radio will display "UPDATING" for about one minute. The audio source should be set to iPod.



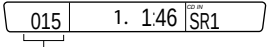
NOTE: *if radio continues to display "UPDATING" for more than one minute, turn the radio OFF and then ON again.*

Viewing the text fields

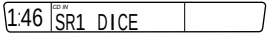
The Text field on the radio's display is capable of displaying Channel number, Channel name, CAT name, Title and Name:



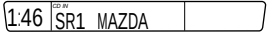
Channel number



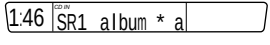
Channel name (fixed)



Category name (fixed)



Title (displays Album*Artist)



Name (displays song name)

NOTE: *NON-NAV radios show these fields in one line: Song * Album * Artist*

Selecting Modes

Browsing functions allow browsing songs by Track, Playlist, Artist or Album. They also allow changing iPod/AUX source. To change between modes, **double click** the TRACK/SEEK button.

Track ..... 1:46 CD IN SR1 TRACK

Playlist ..... 1:46 CD IN SR1 PLAYLIST

Artist ..... 1:46 CD IN SR1 Artist

Album ..... 1:46 CD IN SR1 Album

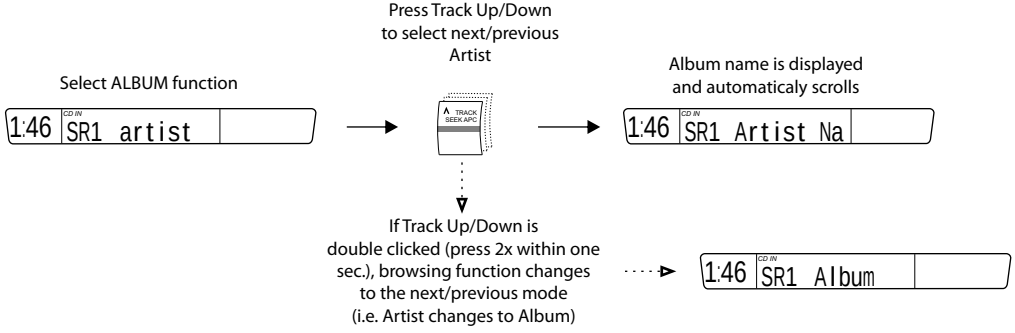
Source ..... 1:46 CD IN SR1 SOURCE

Ver./Text Settings ..... 1:46 CD IN SR1 FW 1.xx

Browsing in Modes

Once a mode has been selected, use the Track/Seek button to select the next item within that mode. The example below shows how to browse Artists within the ARTIST mode.

NOTE: *If nothing is pressed for 30 seconds, browsing function returns to Track mode. To avoid mode switching, please wait until the TITLE is shown before pressing next/previous again.*

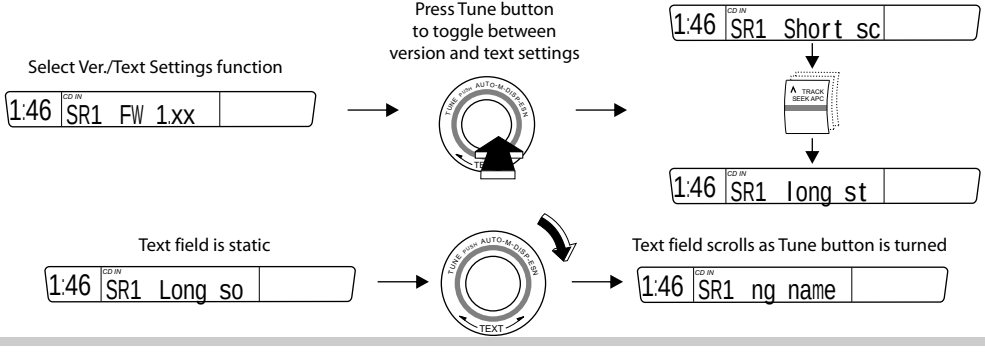


Text scroll settings

Text scrolling will work in two different ways, depending on the car configuration dip switch settings.

If the car configuration switch was set to the **OFF/OFF** position, the radio will always auto-scroll 8 characters. Turning the text button has no effect.

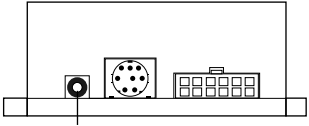
If the car configuration switch was set to the **ON/OFF** position, there is an option to select between 8 character auto-scroll and 29 character manual-scroll text display settings.

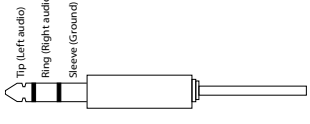

Select Ver./Text Settings function
1:46 CD IN SR1 FW 1.xx
Press Tune button to toggle between version and text settings
TUNE PUSH AUTO-M-DISP PUSH
TEXT
1:46 CD IN SR1 Short sc
TRACK SEEK APC
1:46 CD IN SR1 long st
Text field is static
1:46 CD IN SR1 Long so
TUNE PUSH AUTO-M-DISP PUSH
TEXT
Text field scrolls as Tune button is turned
1:46 CD IN SR1 ng name

Auxiliary audio source

Connections

The interface is equipped with a 1/8" AUX jack connection to connect an auxiliary device, such as an MP3 player, DVD player or other audio source. To access the AUX audio source, select the SOURCE function and press the next track to toggle between SEL:AUX and SEL: IPOD .





1/8" mini stereo jack, not included

Making the adjustments

While listening to the auxiliary device, adjust the volume (gain), bass, mid and treble by turning the Tune dial or pressing the Seek button. DISC/Preset 1-4 modes select what adjustment the Tune/Seek buttons perform. See illustration on page 30.

AUX audio source setting

The auxiliary input has settings for **gain**, **bass, mid** and **treble** in order to optimize sound.

Volume (Gain) should be adjusted if the audio level from the auxiliary device is too low or to high. If you hear distorted audio while playing the auxiliary device, you need to reduce (-) the gain. If you notice that the audio is too quiet then the gain setting should be increased (+). Default settings are "50" ("68" for gain) and values may be adjusted in increments between 01-99. **Bass, Mid** and **Treble** should be adjusted to compensate for the acoustic presets of the radio.

Note: If you are using an AUX device that is using the vehicle's power source and not its own battery, you may have to use a GROUND-LOOP isolator to avoid grounding and engine noise.

Troubleshooting

Problem	Solution
Cannot select the interface.	Check DIP switch settings (refer to p.11). With the ignition OFF disconnect vehicle harness from module for a few seconds and reconnect. Verify that the correct button is used to access the interface. 2004 Mazda6 may require radio modification to accept external CD changer connection.
No audio from iPod source.	Reset the iPod. Verify proper connection to iPod/interface.
Radio/ steering wheel controls do not operate iPod.	Reset iPod and make sure most recent iPod firmware is installed. Check vehicle user manual on how steering wheel controls work.

Troubleshooting

Problem	Solution
iPod does not charge.	Check all connections. Reset iPod and make sure iPod charges while connected to computer or wall charger.
Music is distorted or sound level is too low.	Check and make sure all EQ and BASS boost options are turned off on your iPod. (Refer to AUX settings on p.30)
No text display.	Make sure DIP switch settings are correctly set for text display. (Refer to pp.11, 20 for dip switch settings.)

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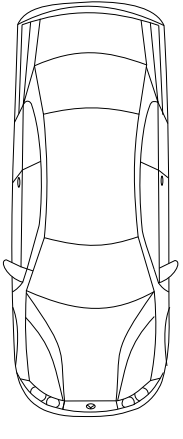
Installation notes:

Installed by:	Illustration:
Install date:	
Other notes:	



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